

07/30/14



## **Technical Report for**

**Stantec Consulting Services Inc.** 

Sunoco - Marcus Hook Facility, PA

213402353

Accutest Job Number: JB47863

**Sampling Date: 09/19/13** 

## Report to:

**Stantec** 

Lisa. Votta@stantec.com

**ATTN: Lisa Votta** 

Total number of pages in report: 30



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Maney +. Cole
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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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## **Sample Summary**

**Stantec Consulting Services Inc.** 

Job No: JB47863

Sunoco - Marcus Hook Facility, PA

**Project No: 213402353** 

| Sample<br>Number | Collected<br>Date | Time By   | Received | Matr<br>Code |      | Client<br>Sample ID |
|------------------|-------------------|-----------|----------|--------------|------|---------------------|
| JB47863-1        | 09/19/13          | 09:00 JDR | 09/19/13 | so           | Soil | MW-482(0-2.0)       |
| JB47863-2        | 09/19/13          | 10:20 JDR | 09/19/13 | so           | Soil | MW-482(2.0-4.0)     |
| JB47863-3        | 09/19/13          | 10:35 JDR | 09/19/13 | so           | Soil | MW-482(4.0-5.5)     |





#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Stantec Consulting Services Inc. Job No JB47863

Site: Sunoco - Marcus Hook Facility, PA Report Date 10/7/2013 10:23:04 A

On 09/19/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.1 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB47863 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Volatiles by GCMS By Method SW846 8260B

Matrix: SO Batch ID: V2C5164

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB48042-5MS, JB48042-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB47863-3: Dilution required due to matrix interference.

Matrix: SO Batch ID: V3C4609

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB48882-2MS, JB48882-3DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Benzene, Ethylbenzene, Xylene (total) are outside control limits for sample JB48882-3DUP. High RPD due to low concentration of hit

#### Extractables by GCMS By Method SW846 8270D

Matrix: SO Batch ID: OP69179

- All samples were extracted within the recommended method holding time.
- Sample(s) JB47862-1MS, JB47862-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Benzo(g,h,i)perylene are outside control limits. Outside control limits due to matrix interference.

#### Volatiles by GC By Method SW846 8011

Matrix: SO Batch ID: M:OP35003

- The data for SW846 8011 meets quality control requirements.
- JB47863-1: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB47863-2: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB47863-3: Analysis performed at Accutest Laboratories, Marlborough, MA.

#### Metals By Method SW846 6010C

Matrix: SO Batch ID: MP74944

Sample(s) JB47906-10MS, JB47906-10MSD, JB47906-10SDL were used as the QC samples for metals.

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ACCUTEST
JB47863

#### Wet Chemistry By Method SM2540 G-97

Matrix: SO Batch ID: GN91987

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

<sup>■</sup> The data for SM2540 G-97 meets quality control requirements.



#### SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey Job No JB47863

Site: SECORPAE: Sunoco - Marcus Hook Facility, PA Report Date 10/3/2013 10:53:42 AM

3 Sample(s) were collected on 09/19/2013 and were received at Accutest on 09/19/2013 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of JB47863. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

#### Volatiles by GC By Method SW846 8011

Matrix SO Batch ID: OP35003

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB47863-2MS, JB47863-2MSD were used as the QC samples indicated.
- JB47863-1,2,3 for Bromofluorobenzene (S): Outside control limits due to possible matrix interference.
- OP35003-MS/MSD for Bromofluorobenzene (S): Surrogate standard not added.
- OP35003-BS for Bromofluorobenzene (S): Analyte recovery satisfactory.
- OP35003-MB for Bromofluorobenzene (S): Samples are non-detect for analyte.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(JB47863).

Summary of Hits
Job Number: JB47863
Account: Stantec Consulting Services Inc.
Project: Sunoco - Marcus Hook Facility, PA
Collected: 09/19/13

| Lab Sample ID Client Sample<br>Analyte | ID Result/<br>Qual | RL  | MDL      | Units                          | Method      |
|--|--------------------|-----|----------|--------------------------------|-------------|
| JB47863-1 MW-482(0-2.0                 | )                  |     |          |                                |             |
| sec-Butylbenzene                       | 1.1 J              | 4.1 | 0.093    | ug/kg                          | SW846 8260B |
| tert-Butylbenzene                      | 0.39 J             | 4.1 | 0.24     | ug/kg                          | SW846 8260B |
| Cyclohexane                            | 1.1 J              | 4.1 | 0.10     | ug/kg                          | SW846 8260B |
| Hexane                                 | 1.7 J              | 4.1 | 0.20     | ug/kg                          | SW846 8260B |
| Isopropylbenzene                       | 1.0 J              | 4.1 | 0.061    | ug/kg                          | SW846 8260B |
| Benzo(a)anthracene                     | 29.7 J             | 35  | 11       | ug/kg                          | SW846 8270D |
| Benzo(a)pyrene                         | 30.4 J             | 35  | 11       | ug/kg                          | SW846 8270D |
| Benzo(b)fluoranthene                   | 28.4 J             | 35  | 12       | ug/kg                          | SW846 8270D |
| Benzo(g,h,i)perylene                   | 42.0               | 35  | 13       | ug/kg                          | SW846 8270D |
| Benzo(k)fluoranthene                   | 21.7 J             | 35  | 13       | ug/kg                          | SW846 8270D |
| Chrysene                               | 35.7               | 35  | 12       | ug/kg                          | SW846 8270D |
| Fluoranthene                           | 49.3               | 35  | 15       | ug/kg                          | SW846 8270D |
| Fluorene                               | 19.9 J             | 35  | 11       | ug/kg<br>ug/kg                 | SW846 8270D |
| Indeno(1,2,3-cd)pyrene                 | 21.2 J             | 35  | 12       | ug/kg<br>ug/kg                 | SW846 8270D |
| Phenanthrene                           | 39.7               | 35  | 16       | ug/kg<br>ug/kg                 | SW846 8270D |
| Pyrene                                 | 62.0               | 35  | 13       | ug/kg<br>ug/kg                 | SW846 8270D |
| Cobalt                                 | 10.0               | 5.5 | 0.073    | mg/kg                          | SW846 6010C |
| Lead                                   | 22.4               | 2.2 | 0.073    | mg/kg                          | SW846 6010C |
| Nickel                                 | 27.7               | 4.4 | 0.24     | mg/kg                          | SW846 6010C |
| Vanadium                               | 45.4               | 5.5 | 0.081    |                                | SW846 6010C |
| v anautum                              | 45.4               | 3.3 | 0.001    | mg/kg                          | 3W840 0010C |
| JB47863-2 MW-482(2.0-4                 | .0)                |     |          |                                |             |
| Xylene (total)                         | 0.32 J             | 1.1 | 0.15     | ug/kg                          | SW846 8260B |
| sec-Butylbenzene                       | 10.2               | 5.3 | 0.12     | ug/kg<br>ug/kg                 | SW846 8260B |
| tert-Butylbenzene                      | 5.2 J              | 5.3 | 0.12     | ug/kg<br>ug/kg                 | SW846 8260B |
| Hexane                                 | 0.45 J             | 5.3 | 0.25     | ug/kg                          | SW846 8260B |
| Isopropylbenzene                       | 15.9               | 5.3 | 0.23     | ug/kg<br>ug/kg                 | SW846 8260B |
| Acenaphthene                           | 28.8 J             | 43  | 12       | ug/kg<br>ug/kg                 | SW846 8270D |
| Fluorene                               | 51.3               | 43  | 14       | ug/kg<br>ug/kg                 | SW846 8270D |
| Phenanthrene                           | 62.4               | 43  | 20       | ug/kg<br>ug/kg                 | SW846 8270D |
|  | 28.1 J             | 43  | 20<br>16 |                                | SW846 8270D |
| Pyrene<br>Cobalt                       | 8.8                | 5.1 |          | ug/kg                          |             |
|  |                    |     | 0.067    | mg/kg                          | SW846 6010C |
| Lead<br>Nickel                         | 9.5                | 2.0 | 0.22     | mg/kg                          | SW846 6010C |
|  | 24.4               | 4.1 | 0.080    | mg/kg                          | SW846 6010C |
| Vanadium                               | 28.1               | 5.1 | 0.074    | mg/kg                          | SW846 6010C |
| JB47863-3 MW-482(4.0-5                 | .5)                |     |          |                                |             |
| sec-Butylbenzene <sup>a</sup>          | 273 J              | 570 | 21       | ug/kg                          | SW846 8260B |
| tert-Butylbenzene a                    | 112 J              | 570 | 19       | ug/kg                          | SW846 8260B |
| Isopropylbenzene a                     | 380 J              | 570 | 17       | ug/kg                          | SW846 8260B |
| Acenaphthene                           | 235                | 40  | 12       | ug/kg<br>ug/kg                 | SW846 8270D |
|  | ~00                |     | -~       | "გ <sup>,</sup> <del>"</del> გ | 21101002101 |

**Summary of Hits** Job Number: JB47863

Account: Stantec Consulting Services Inc.
Project: Sunoco - Marcus Hook Facility, PA

Collected: 09/19/13

| Lab Sample ID Client Sample ID<br>Analyte | Result/<br>Qual | RL  | MDL   | Units | Method      |
|---|-----------------|-----|-------|-------|-------------|
| Anthracene                                | 75.3            | 40  | 14    | ug/kg | SW846 8270D |
| Benzo(a)pyrene                            | 60.7            | 40  | 12    | ug/kg | SW846 8270D |
| Benzo(b)fluoranthene                      | 18.8 J          | 40  | 13    | ug/kg | SW846 8270D |
| Benzo(g,h,i)perylene                      | 42.5            | 40  | 15    | ug/kg | SW846 8270D |
| Diethyl phthalate                         | 169             | 80  | 14    | ug/kg | SW846 8270D |
| Fluoranthene                              | 67.4            | 40  | 18    | ug/kg | SW846 8270D |
| Fluorene                                  | 425             | 40  | 13    | ug/kg | SW846 8270D |
| Phenanthrene                              | 1130            | 40  | 18    | ug/kg | SW846 8270D |
| Pyrene                                    | 483             | 40  | 15    | ug/kg | SW846 8270D |
| Cobalt                                    | 8.3             | 5.1 | 0.067 | mg/kg | SW846 6010C |
| Lead                                      | 6.1             | 2.0 | 0.22  | mg/kg | SW846 6010C |
| Nickel                                    | 14.4            | 4.0 | 0.080 | mg/kg | SW846 6010C |
| Vanadium                                  | 30.7            | 5.1 | 0.074 | mg/kg | SW846 6010C |

<sup>(</sup>a) Dilution required due to matrix interference.





| Sample | Results |
|--------|---------|
|        |         |

**Report of Analysis** 



## 4

## **Report of Analysis**

Client Sample ID: MW-482(0-2.0)
Lab Sample ID: JB47863-1
Matrix: SO - Soil

Method: SW846 8260B

Project: Sunoco - Marcus Hook Facility, PA

Date Sampled: 09/19/13
Date Received: 09/19/13
Percent Solids: 93.0

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 3C103429.D 1 10/02/13 TS n/a n/a V3C4609

Run #2

**Initial Weight** 

Run #1 6.6 g

Run #2

Leaded Gasoline and Aviation Gas List

| CAS No.    | Compound                | Result | RL      | MDL    | Units       | Q |
|------------|-------------------------|--------|---------|--------|-------------|---|
| 71-43-2    | Benzene                 | ND     | 0.81    | 0.097  | ug/kg       |   |
| 108-88-3   | Toluene                 | ND     | 0.81    | 0.086  | ug/kg       |   |
| 100-41-4   | Ethylbenzene            | ND     | 0.81    | 0.21   | ug/kg       |   |
| 1330-20-7  | Xylene (total)          | ND     | 0.81    | 0.11   | ug/kg       |   |
| 1634-04-4  | Methyl Tert Butyl Ether | ND     | 0.81    | 0.19   | ug/kg       |   |
| 135-98-8   | sec-Butylbenzene        | 1.1    | 4.1     | 0.093  | ug/kg       | J |
| 98-06-6    | tert-Butylbenzene       | 0.39   | 4.1     | 0.24   | ug/kg       | J |
| 110-82-7   | Cyclohexane             | 1.1    | 4.1     | 0.10   | ug/kg       | J |
| 107-06-2   | 1,2-Dichloroethane      | ND     | 0.81    | 0.11   | ug/kg       |   |
| 110-54-3   | Hexane                  | 1.7    | 4.1     | 0.20   | ug/kg       | J |
| 98-82-8    | Isopropylbenzene        | 1.0    | 4.1     | 0.061  | ug/kg       | J |
| 95-63-6    | 1,2,4-Trimethylbenzene  | ND     | 4.1     | 0.17   | ug/kg       |   |
| 108-67-8   | 1,3,5-Trimethylbenzene  | ND     | 4.1     | 0.13   | ug/kg       |   |
| CAS No.    | Surrogate Recoveries    | Run# 1 | Run# 2  | Limits |             |   |
| 1868-53-7  | Dibromofluoromethane    | 90%    |         | 59-1   | <b>30</b> % |   |
| 17060-07-0 | 1,2-Dichloroethane-D4   | 90%    |         | 65-1   | 23%         |   |
| 2037-26-5  | Toluene-D8              | 94%    |         | 80-1   | 24%         |   |
| 460-00-4   | 4-Bromofluorobenzene    | 91%    | 71-132% |        |             |   |

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

**E** = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$ 



Date Sampled:

09/19/13

### 4

## **Report of Analysis**

Client Sample ID: MW-482(0-2.0) Lab Sample ID: JB47863-1

Matrix: SO - Soil Date Received: 09/19/13 Method: SW846 8270D SW846 3550C Percent Solids: 93.0

Project: Sunoco - Marcus Hook Facility, PA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 6P700.D 1 10/01/13 KR 09/23/13 OP69179 E6P29

Run #2

Initial Weight Final Volume

Run #1 30.9 g 1.0 ml

Run #2

#### **ABN Special List**

| CAS No.  | Compound                   | Result | RL     | MDL       | Units | Q |
|----------|----------------------------|--------|--------|-----------|-------|---|
| 105-67-9 | 2,4-Dimethylphenol         | ND     | 170    | 58        | ug/kg |   |
| 51-28-5  | 2,4-Dinitrophenol          | ND     | 700    | 42        | ug/kg |   |
| 95-48-7  | 2-Methylphenol             | ND     | 70     | 40        | ug/kg |   |
|          | 3&4-Methylphenol           | ND     | 70     | 44        | ug/kg |   |
| 100-02-7 | 4-Nitrophenol              | ND     | 350    | <b>59</b> | ug/kg |   |
| 108-95-2 | Phenol                     | ND     | 70     | 37        | ug/kg |   |
| 83-32-9  | Acenaphthene               | ND     | 35     | 10        | ug/kg |   |
| 120-12-7 | Anthracene                 | ND     | 35     | 12        | ug/kg |   |
| 56-55-3  | Benzo(a)anthracene         | 29.7   | 35     | 11        | ug/kg | J |
| 50-32-8  | Benzo(a)pyrene             | 30.4   | 35     | 11        | ug/kg | J |
| 205-99-2 | Benzo(b)fluoranthene       | 28.4   | 35     | 12        | ug/kg | J |
| 191-24-2 | Benzo(g,h,i)perylene       | 42.0   | 35     | 13        | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene       | 21.7   | 35     | 13        | ug/kg | J |
| 92-52-4  | 1,1'-Biphenyl              | ND     | 70     | 4.0       | ug/kg |   |
| 218-01-9 | Chrysene                   | 35.7   | 35     | 12        | ug/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene     | ND     | 35     | 12        | ug/kg |   |
| 84-74-2  | Di-n-butyl phthalate       | ND     | 70     | 7.7       | ug/kg |   |
| 84-66-2  | Diethyl phthalate          | ND     | 70     | 12        | ug/kg |   |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND     | 70     | 31        | ug/kg |   |
| 206-44-0 | Fluoranthene               | 49.3   | 35     | 15        | ug/kg |   |
| 86-73-7  | Fluorene                   | 19.9   | 35     | 11        | ug/kg | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene     | 21.2   | 35     | 12        | ug/kg | J |
| 91-57-6  | 2-Methylnaphthalene        | ND     | 70     | 19        | ug/kg |   |
| 91-20-3  | Naphthalene                | ND     | 35     | 9.5       | ug/kg |   |
| 85-01-8  | Phenanthrene               | 39.7   | 35     | 16        | ug/kg |   |
| 129-00-0 | Pyrene                     | 62.0   | 35     | 13        | ug/kg |   |
| 110-86-1 | Pyridine                   | ND     | 70     | 14        | ug/kg |   |
| 91-22-5  | Quinoline                  | ND     | 170    | 33        | ug/kg |   |
| CAS No.  | Surrogate Recoveries       | Run# 1 | Run# 2 | Lim       | its   |   |

367-12-4 2-Fluorophenol 89% 13-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



## **Report of Analysis**

**Client Sample ID: MW-482(0-2.0)** 

Lab Sample ID: JB47863-1 Date Sampled: 09/19/13 Matrix: SO - Soil **Date Received:** 09/19/13 93.0

SW846 8270D SW846 3550C Method: **Percent Solids:** 

Sunoco - Marcus Hook Facility, PA **Project:** 

#### **ABN Special List**

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits          |
|-----------|----------------------|--------|--------|-----------------|
| 4165-62-2 | Phenol-d5            | 102%   |        | <b>15-110</b> % |
| 118-79-6  | 2,4,6-Tribromophenol | 100%   |        | 20-123%         |
| 4165-60-0 | Nitrobenzene-d5      | 93%    |        | 10-110%         |
| 321-60-8  | 2-Fluorobiphenyl     | 86%    |        | 17-110%         |
| 1718-51-0 | Terphenyl-d14        | 92%    |        | 30-124%         |

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



## 4

## **Report of Analysis**

Client Sample ID: MW-482(0-2.0)

 Lab Sample ID:
 JB47863-1
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8011
 SW846 3550B
 Percent Solids:
 93.0

Project: Sunoco - Marcus Hook Facility, PA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 a BB51262.D 1 10/01/13 AMA 09/29/13 M:OP35003 M:GBB3022

Run #2

Initial Weight Final Volume Run #1 30.4 g 50.0 ml

Run #2

CAS No. Compound Result RL MDL Units Q

106-93-4 1,2-Dibromoethane ND 2.6 0.98 ug/kg

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

 460-00-4
 Bromofluorobenzene (S)
 243% b
 61-167%

 460-00-4
 Bromofluorobenzene (S)
 106%
 61-167%

- (a) Analysis performed at Accutest Laboratories, Marlborough, MA.
- (b) Outside control limits due to possible matrix interference.

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

**E** = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



## **Report of Analysis**

Client Sample ID: MW-482(0-2.0)
Lab Sample ID: JB47863-1
Matrix: SO - Soil

Date Sampled: 09/19/13 Date Received: 09/19/13 Percent Solids: 93.0

Project: Sunoco - Marcus Hook Facility, PA

#### **Metals Analysis**

| Analyte  | Result | RL  | MDL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|--------|-----|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Cobalt   | 10.0   | 5.5 | 0.073 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Lead     | 22.4   | 2.2 | 0.24  | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Nickel   | 27.7   | 4.4 | 0.088 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Vanadium | 45.4   | 5.5 | 0.081 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |

(1) Instrument QC Batch: MA32312(2) Prep QC Batch: MP74944

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL



#### 4

## **Report of Analysis**

Client Sample ID: MW-482(2.0-4.0)

 Lab Sample ID:
 JB47863-2
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8260B
 Percent Solids:
 74.0

Project: Sunoco - Marcus Hook Facility, PA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 3C103430.D 1 10/02/13 TS n/a n/a V3C4609

Run #2

**Initial Weight** 

Run #1 6.4 g

Run #2

#### **Leaded Gasoline and Aviation Gas List**

| CAS No.    | Compound                | Result | RL      | MDL    | Units       | Q |
|------------|-------------------------|--------|---------|--------|-------------|---|
| 71-43-2    | Benzene                 | ND     | 1.1     | 0.13   | ug/kg       |   |
| 108-88-3   | Toluene                 | ND     | 1.1     | 0.11   | ug/kg       |   |
| 100-41-4   | Ethylbenzene            | ND     | 1.1     | 0.28   | ug/kg       |   |
| 1330-20-7  | Xylene (total)          | 0.32   | 1.1     | 0.15   | ug/kg       | J |
| 1634-04-4  | Methyl Tert Butyl Ether | ND     | 1.1     | 0.25   | ug/kg       |   |
| 135-98-8   | sec-Butylbenzene        | 10.2   | 5.3     | 0.12   | ug/kg       |   |
| 98-06-6    | tert-Butylbenzene       | 5.2    | 5.3     | 0.31   | ug/kg       | J |
| 110-82-7   | Cyclohexane             | ND     | 5.3     | 0.13   | ug/kg       |   |
| 107-06-2   | 1,2-Dichloroethane      | ND     | 1.1     | 0.14   | ug/kg       |   |
| 110-54-3   | Hexane                  | 0.45   | 5.3     | 0.25   | ug/kg       | J |
| 98-82-8    | Isopropylbenzene        | 15.9   | 5.3     | 0.078  | ug/kg       |   |
| 95-63-6    | 1,2,4-Trimethylbenzene  | ND     | 5.3     | 0.22   | ug/kg       |   |
| 108-67-8   | 1,3,5-Trimethylbenzene  | ND     | 5.3     | 0.17   | ug/kg       |   |
| CAS No.    | Surrogate Recoveries    | Run# 1 | Run# 2  | Limits |             |   |
| 1868-53-7  | Dibromofluoromethane    | 88%    |         | 59-13  | <b>30</b> % |   |
| 17060-07-0 | 1,2-Dichloroethane-D4   | 86%    |         | 65-12  | 23%         |   |
| 2037-26-5  | Toluene-D8              | 95%    |         | 80-12  | 24%         |   |
| 460-00-4   | 4-Bromofluorobenzene    | 85%    | 71-132% |        |             |   |

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \mbox{ Indicates analyte found in associated method blank } \\ N = \mbox{ Indicates presumptive evidence of a compound}$ 



## **Report of Analysis**

Client Sample ID: MW-482(2.0-4.0)

 Lab Sample ID:
 JB47863-2
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8270D
 SW846 3550C
 Percent Solids:
 74.0

Project: Sunoco - Marcus Hook Facility, PA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 6P684.D 1 10/01/13 KR 09/23/13 OP69179 E6P29

Run #2

Initial Weight Final Volume

Run #1 31.5 g 1.0 ml

Run #2

#### **ABN Special List**

| CAS No.  | Compound                   | Result | RL     | MDL       | Units | Q |
|----------|----------------------------|--------|--------|-----------|-------|---|
| 105-67-9 | 2,4-Dimethylphenol         | ND     | 210    | 72        | ug/kg |   |
| 51-28-5  | 2,4-Dinitrophenol          | ND     | 860    | <b>52</b> | ug/kg |   |
| 95-48-7  | 2-Methylphenol             | ND     | 86     | 49        | ug/kg |   |
|          | 3&4-Methylphenol           | ND     | 86     | <b>54</b> | ug/kg |   |
| 100-02-7 | 4-Nitrophenol              | ND     | 430    | 73        | ug/kg |   |
| 108-95-2 | Phenol                     | ND     | 86     | 45        | ug/kg |   |
| 83-32-9  | Acenaphthene               | 28.8   | 43     | 12        | ug/kg | J |
| 120-12-7 | Anthracene                 | ND     | 43     | 15        | ug/kg |   |
| 56-55-3  | Benzo(a)anthracene         | ND     | 43     | 14        | ug/kg |   |
| 50-32-8  | Benzo(a)pyrene             | ND     | 43     | 13        | ug/kg |   |
| 205-99-2 | Benzo(b)fluoranthene       | ND     | 43     | 14        | ug/kg |   |
| 191-24-2 | Benzo(g,h,i)perylene       | ND     | 43     | 16        | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene       | ND     | 43     | 16        | ug/kg |   |
| 92-52-4  | 1,1'-Biphenyl              | ND     | 86     | 5.0       | ug/kg |   |
| 218-01-9 | Chrysene                   | ND     | 43     | 15        | ug/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene     | ND     | 43     | 15        | ug/kg |   |
| 84-74-2  | Di-n-butyl phthalate       | ND     | 86     | 9.5       | ug/kg |   |
| 84-66-2  | Diethyl phthalate          | ND     | 86     | 15        | ug/kg |   |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND     | 86     | 38        | ug/kg |   |
| 206-44-0 | Fluoranthene               | ND     | 43     | 19        | ug/kg |   |
| 86-73-7  | Fluorene                   | 51.3   | 43     | 14        | ug/kg |   |
| 193-39-5 | Indeno(1,2,3-cd)pyrene     | ND     | 43     | 15        | ug/kg |   |
| 91-57-6  | 2-Methylnaphthalene        | ND     | 86     | 24        | ug/kg |   |
| 91-20-3  | Naphthalene                | ND     | 43     | 12        | ug/kg |   |
| 85-01-8  | Phenanthrene               | 62.4   | 43     | 20        | ug/kg |   |
| 129-00-0 | Pyrene                     | 28.1   | 43     | 16        | ug/kg | J |
| 110-86-1 | Pyridine                   | ND     | 86     | 17        | ug/kg |   |
| 91-22-5  | Quinoline                  | ND     | 210    | 40        | ug/kg |   |
| CAS No.  | Surrogate Recoveries       | Run# 1 | Run# 2 | Lim       | its   |   |

367-12-4 2-Fluorophenol 89% 13-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$ 



### 4

## **Report of Analysis**

**Client Sample ID:** MW-482(2.0-4.0)

 Lab Sample ID:
 JB47863-2
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8270D
 SW846 3550C
 Percent Solids:
 74.0

Project: Sunoco - Marcus Hook Facility, PA

#### **ABN Special List**

| CAS No.   | <b>Surrogate Recoveries</b> | Run# 1 | Run# 2 | Limits          |
|-----------|-----------------------------|--------|--------|-----------------|
| 4165-62-2 | Phenol-d5                   | 107%   |        | 15-110%         |
| 118-79-6  | 2,4,6-Tribromophenol        | 113%   |        | 20-123%         |
| 4165-60-0 | Nitrobenzene-d5             | 99%    |        | 10-110%         |
| 321-60-8  | 2-Fluorobiphenyl            | 106%   |        | <b>17-110</b> % |
| 1718-51-0 | Terphenyl-d14               | 98%    |        | 30-124%         |

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



## **Report of Analysis**

Client Sample ID: MW-482(2.0-4.0)

Lab Sample ID: JB47863-2 09/19/13 Date Sampled: Matrix: SO - Soil **Date Received:** 09/19/13 Method: SW846 8011 SW846 3550B 74.0 **Percent Solids:** 

**Project:** Sunoco - Marcus Hook Facility, PA

File ID DF **Analytical Batch** Analyzed By **Prep Date Prep Batch** 09/29/13 Run #1 a BB51253.D 1 10/01/13 **AMA** M:OP35003 M:GBB3022

Run #2

**Final Volume Initial Weight** Run #1 50.0 ml 30.4 g

Run #2

CAS No. Compound Units Result RL**MDL** Q

106-93-4 1,2-Dibromoethane ND 3.3 1.2 ug/kg

CAS No. **Surrogate Recoveries** Run#1 Run# 2 Limits

460-00-4 Bromofluorobenzene (S) 217% b 61-167% 460-00-4 Bromofluorobenzene (S) 114% 61-167%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Outside control limits due to possible matrix interference.

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

**E** = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



## **Report of Analysis**

Client Sample ID: MW-482(2.0-4.0)

Lab Sample ID: JB47863-2 Date Sampled: 09/19/13
Matrix: SO - Soil Date Received: 09/19/13
Percent Solids: 74.0

Project: Sunoco - Marcus Hook Facility, PA

#### **Metals Analysis**

| Analyte  | Result | RL  | MDL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|--------|-----|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Cobalt   | 8.8    | 5.1 | 0.067 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Lead     | 9.5    | 2.0 | 0.22  | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Nickel   | 24.4   | 4.1 | 0.080 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Vanadium | 28.1   | 5.1 | 0.074 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |

(1) Instrument QC Batch: MA32312

(2) Prep QC Batch: MP74944

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL



## **Report of Analysis**

Client Sample ID: MW-482(4.0-5.5)

 Lab Sample ID:
 JB47863-3
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8260B
 Percent Solids:
 77.3

Project: Sunoco - Marcus Hook Facility, PA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 a 2C112151.D 1 10/03/13 DR n/a n/a V2C5164

Run #2

Initial Weight Final Volume Methanol Aliquot
Run #1 6.5 g 10.0 ml 100 ul
Run #2

#### **Leaded Gasoline and Aviation Gas List**

| CAS No.    | Compound                | Result | RL     | MDL  | Units | Q |
|------------|-------------------------|--------|--------|------|-------|---|
| 71-43-2    | Benzene                 | ND     | 110    | 14   | ug/kg |   |
| 108-88-3   | Toluene                 | ND     | 110    | 16   | ug/kg |   |
| 100-41-4   | Ethylbenzene            | ND     | 110    | 20   | ug/kg |   |
| 1330-20-7  | Xylene (total)          | ND     | 110    | 20   | ug/kg |   |
| 1634-04-4  | Methyl Tert Butyl Ether | ND     | 110    | 39   | ug/kg |   |
| 135-98-8   | sec-Butylbenzene        | 273    | 570    | 21   | ug/kg | J |
| 98-06-6    | tert-Butylbenzene       | 112    | 570    | 19   | ug/kg | J |
| 110-82-7   | Cyclohexane             | ND     | 570    | 29   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane      | ND     | 110    | 37   | ug/kg |   |
| 110-54-3   | Hexane                  | ND     | 570    | 62   | ug/kg |   |
| 98-82-8    | Isopropylbenzene        | 380    | 570    | 17   | ug/kg | J |
| 95-63-6    | 1,2,4-Trimethylbenzene  | ND     | 570    | 18   | ug/kg |   |
| 108-67-8   | 1,3,5-Trimethylbenzene  | ND     | 570    | 25   | ug/kg |   |
| CAS No.    | Surrogate Recoveries    | Run# 1 | Run# 2 | Lim  | its   |   |
| 1868-53-7  | Dibromofluoromethane    | 109%   |        | 59-1 | 30%   |   |
| 17060-07-0 | 1,2-Dichloroethane-D4   | 105%   |        | 65-1 | 23%   |   |
| 2037-26-5  | Toluene-D8              | 112%   |        | 80-1 | 24%   |   |
| 460-00-4   | 4-Bromofluorobenzene    | 97%    |        | 71-1 | 32%   |   |

(a) Dilution required due to matrix interference.

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

**E** = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$ 



## **Report of Analysis**

Client Sample ID: MW-482(4.0-5.5)

Lab Sample ID: JB47863-3 Date Sampled: 09/19/13 **Matrix:** SO - Soil **Date Received:** 09/19/13 Method: SW846 8270D SW846 3550C **Percent Solids:** 77.3

Sunoco - Marcus Hook Facility, PA **Project:** 

File ID DF **Analytical Batch** Analyzed By **Prep Date Prep Batch** 6P685.D 09/23/13 OP69179 E6P29 Run #1 1 10/01/13 KR

Run #2

**Final Volume Initial Weight** 

Run #1 32.5 g 1.0 ml

Run #2

#### **ABN Special List**

| CAS No.  | Compound                   | Result | RL     | MDL  | Units | Q |
|----------|----------------------------|--------|--------|------|-------|---|
| 105-67-9 | 2,4-Dimethylphenol         | ND     | 200    | 67   | ug/kg |   |
| 51-28-5  | 2,4-Dinitrophenol          | ND     | 800    | 49   | ug/kg |   |
| 95-48-7  | 2-Methylphenol             | ND     | 80     | 45   | ug/kg |   |
|          | 3&4-Methylphenol           | ND     | 80     | 51   | ug/kg |   |
| 100-02-7 | 4-Nitrophenol              | ND     | 400    | 67   | ug/kg |   |
| 108-95-2 | Phenol                     | ND     | 80     | 42   | ug/kg |   |
| 83-32-9  | Acenaphthene               | 235    | 40     | 12   | ug/kg |   |
| 120-12-7 | Anthracene                 | 75.3   | 40     | 14   | ug/kg |   |
| 56-55-3  | Benzo(a)anthracene         | ND     | 40     | 13   | ug/kg |   |
| 50-32-8  | Benzo(a)pyrene             | 60.7   | 40     | 12   | ug/kg |   |
| 205-99-2 | Benzo(b)fluoranthene       | 18.8   | 40     | 13   | ug/kg | J |
| 191-24-2 | Benzo(g,h,i)perylene       | 42.5   | 40     | 15   | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene       | ND     | 40     | 15   | ug/kg |   |
| 92-52-4  | 1,1'-Biphenyl              | ND     | 80     | 4.6  | ug/kg |   |
| 218-01-9 | Chrysene                   | ND     | 40     | 13   | ug/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene     | ND     | 40     | 14   | ug/kg |   |
| 84-74-2  | Di-n-butyl phthalate       | ND     | 80     | 8.8  | ug/kg |   |
| 84-66-2  | Diethyl phthalate          | 169    | 80     | 14   | ug/kg |   |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND     | 80     | 35   | ug/kg |   |
| 206-44-0 | Fluoranthene               | 67.4   | 40     | 18   | ug/kg |   |
| 86-73-7  | Fluorene                   | 425    | 40     | 13   | ug/kg |   |
| 193-39-5 | Indeno(1,2,3-cd)pyrene     | ND     | 40     | 14   | ug/kg |   |
| 91-57-6  | 2-Methylnaphthalene        | ND     | 80     | 22   | ug/kg |   |
| 91-20-3  | Naphthalene                | ND     | 40     | 11   | ug/kg |   |
| 85-01-8  | Phenanthrene               | 1130   | 40     | 18   | ug/kg |   |
| 129-00-0 | Pyrene                     | 483    | 40     | 15   | ug/kg |   |
| 110-86-1 | Pyridine                   | ND     | 80     | 16   | ug/kg |   |
| 91-22-5  | Quinoline                  | ND     | 200    | 38   | ug/kg |   |
| CAS No.  | Surrogate Recoveries       | Run# 1 | Run# 2 | Lim  | its   |   |
| 367-12-4 | 2-Fluorophenol             | 81%    |        | 13-1 | 10%   |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



## **Report of Analysis**

**Client Sample ID: MW-482(4.0-5.5)** 

 Lab Sample ID:
 JB47863-3
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8270D
 SW846 3550C
 Percent Solids:
 77.3

Project: Sunoco - Marcus Hook Facility, PA

#### **ABN Special List**

| CAS No.   | <b>Surrogate Recoveries</b> | Run# 1 | Run# 2 | Limits          |
|-----------|-----------------------------|--------|--------|-----------------|
| 4165-62-2 | Phenol-d5                   | 94%    |        | <b>15-110</b> % |
| 118-79-6  | 2,4,6-Tribromophenol        | 98%    |        | 20-123%         |
| 4165-60-0 | Nitrobenzene-d5             | 90%    |        | 10-110%         |
| 321-60-8  | 2-Fluorobiphenyl            | 101%   |        | <b>17-110</b> % |
| 1718-51-0 | Terphenyl-d14               | 88%    |        | 30-124%         |

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



## **Report of Analysis**

Client Sample ID: MW-482(4.0-5.5)

 Lab Sample ID:
 JB47863-3
 Date Sampled:
 09/19/13

 Matrix:
 SO - Soil
 Date Received:
 09/19/13

 Method:
 SW846 8011
 SW846 3550B
 Percent Solids:
 77.3

Project: Sunoco - Marcus Hook Facility, PA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 a BB51263.D 1 10/01/13 AMA 09/29/13 M:OP35003 M:GBB3022

Run# 2

Limits

Run #2

Initial Weight Final Volume
Run #1 30.4 g 50.0 ml

**Surrogate Recoveries** 

Run #2

CAS No.

CAS No. Compound Result RL MDL Units Q

Run#1

106-93-4 1,2-Dibromoethane ND 3.2 1.2 ug/kg

460-00-4 Bromofluorobenzene (S) 223% b 61-167% 460-00-4 Bromofluorobenzene (S) 116% 61-167%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Outside control limits due to possible matrix interference.

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

**E** = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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## 4

## **Report of Analysis**

**Client Sample ID:** MW-482(4.0-5.5)

Lab Sample ID: JB47863-3 Date Sampled: 09/19/13
Matrix: SO - Soil Date Received: 09/19/13
Percent Solids: 77.3

f el celt solius.

Project: Sunoco - Marcus Hook Facility, PA

#### **Metals Analysis**

| Analyte  | Result | RL  | MDL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|--------|-----|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Cobalt   | 8.3    | 5.1 | 0.067 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Lead     | 6.1    | 2.0 | 0.22  | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Nickel   | 14.4   | 4.0 | 0.080 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |
| Vanadium | 30.7   | 5.1 | 0.074 | mg/kg | 1  | 10/01/13 | 10/05/13 ND | SW846 6010C <sup>1</sup> | SW846 3050B <sup>2</sup> |

(1) Instrument QC Batch: MA32312

(2) Prep QC Batch: MP74944

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL





Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (Accutest Labs of New England, Inc.)



| ACCUTEST |                 |
|----------|-----------------|
| VIIII    | <b>ACCUTEST</b> |

### CHAIN OF CUSTODY

| ACCUTEST  | SIL                          |                | CHAI          | N C           | F (                   | CUST                     | ГО          | DY           | 7         |         |              |          |            |         |          |          |              |          |                | PA   | ιGE      |           | _ 01     | F                                    |
|---|------------------------------|----------------|---------------|---------------|-----------------------|--------------------------|-------------|--------------|-----------|---------|--------------|----------|------------|---------|----------|----------|--------------|----------|----------------|--|----------|-----------|----------|--------------------------------------|
| LABORATORIES  |                              |                |               |               |                       | , NJ 0881                |             |              |           |         |              |          | FED-EX     |         | -        |          |              |          | Battle         | Order Cor  | itrol#   |           |          |                                      |
|   |                              |                | TEL. 732-1    |               | FAX: 7.<br>accutest.c |                          | 99/348      | 30           |           |         |              |          | Accutes    | t Quote | H        |          |              |          | Accute         | st Job#  |          | JE        | 347      | 863                                  |
| Client / Reporting Information  | Project Name:                |                | Project       | Informa       | ation                 |                          |             |              |           |         |              |          |            | Rec     | queste   | d Ana    | lysis (      | see 7    | rest (         | ODE:   | sheet)   |           |          | Matrix Codes                         |
| Company Name  | '                            |                |               |               |                       |                          |             |              |           |         |              |          |            |         |          |          |              |          | 1              |  |          |           |          | DW - Drinking Water                  |
| STATEC<br>Street Address  | MARCU                        | S Hook M       | W-482         | Current on    | el average            | n de s                   | Na de Marce | \$10 SORA    | (sound    | A COLOR | W81 (3)      | 8087300  |            |         | Ì        |          |              |          |                |  |          |           |          | GW - Ground Water<br>WW - Water      |
| 1060 ANDREW DR  | Joseph .                     |                |               |               |                       | on ( if diffe            |             |              |           |         | MARKE (CAR)  | ene      | 2          |         |          | **       | 1            |          |                |  |          |           |          | SW - Surface Water<br>SO - Soil      |
| 1040 AND REW DR. City State 22p WEST CNESTER 19380 Project Contact E-mail | City                         |                | State         |               | y Name                |                          |             |              | . рол с   | -/      |              |          |            |         |          | "        |              | ĺ        |                | ĺ  |          |           |          | SL- Sludge<br>SED-Sediment           |
| WEST CHESTER 19380 Project Contact E-mail                                 | Project #                    |                |               | Street A      | ddress                |                          |             |              |           |         |              |          | 1          | Ì       |          |          |              |          |                |  |          | 1         |          | OI - Oil                             |
| JENNIFEL MENGES Phone# Fax#   | 213 40,23<br>Client Purchase | 353            |               |               |                       |                          |             |              |           |         |              |          | *          | *       | -        | 100      |              |          |                |  |          |           |          | LIQ - Other Liquid<br>AIR - Air      |
| Phone # Fax #   | Client Purchase              | Order#         |               | City          |                       |                          | S           | State        |           |         | Zip          |          | ۱_ ۱       | رد      | 1        | 3        | 1            | 1        |                |  |          |           |          | SOL - Other Solid<br>WP - Wipe       |
| 610-840-2540 610-840-2500<br>Sampler(s) Name(s) Phone *                   | Project Manager              |                |               | Attention     | 1:                    |                          |             |              |           |         |              |          | - VOC's    | 0       | Q Q      | 0%       | 3            |          |                |  |          | İ         |          | FB-Field Blank<br>EB-Equipment Blank |
| Sampler(s) Name(s) Phone *  JELEMY RICHTER 210-543-736                    |                              |                |               |               |                       |                          |             |              |           |         |              |          | }          | 1       | 3        | I        | 3            |          | İ              |  |          |           |          | R8- Rinse Blank<br>TB-Trip Blank     |
|   |                              |                | Collection    | Т             | 7                     |                          | H           | Numb         | er of pre | served  | Bottle       | 41       |            |         | 1 ~      | 10/00    | 1            |          |                |  |          | İ         |          |                                      |
| Accusest Sample # Field ID / Point of Collection                          | MEOH/DI Viel #               | Date           | Time          | Sampled<br>by | Matrix                | # of bottles             | 포           | NaOH<br>HNO3 | H2SO4     | DI Wate | МЕОН         | ENCO     | 8.260      | 827     | 1        | ્દ્ર     | \$           |          |                |  |          |           |          | LAB USE ONLY                         |
| 1 mw-482 (0-2.0)  |                              | 9/19/13        | 0900          | 90R           | 50                    | 5                        | П           | T            | X         | ×       | x            | T        | ¥          | ×       | ×        | X        |              |          |                |  |          |           |          | C39                                  |
| Z mw-482 (2.0-4.0)  |                              | 9/19/13        | 1020          | DR            | 50                    | 5                        | П           |              | ×         | 1 1     | X            |          | X          | X       | x.       | X        |              |          |                |  |          |           |          | JUJE                                 |
| 3 MW-482 (4.0-5.5)  |                              | 9/19/13        | 1035          |               | 50                    | 5                        | П           | T            | ×         | X       | X            |          | X          | x       | ×        | x        |              |          |                |  |          |           |          | 4934                                 |
|   |                              |                |               |               |                       |                          |             |              |           | T       | П            | T        |            |         |          |          |              |          |                |  |          |           |          | 14161                                |
|   |                              |                |               |               |                       |                          | П           |              |           | T       | $\Box$       | T        |            |         |          |          |              | <b>†</b> |                | <b> </b>   |          | <b>†</b>  |          | 1174                                 |
| •   |                              |                |               |               |                       |                          | П           | T            |           | T       | H            |          |            |         |          |          |              | İ        |                |  |          | 1         | $\vdash$ |                                      |
|   |                              |                |               |               |                       |                          | П           | $\top$       | П         |         |              |          |            |         |          |          |              |          | 1              | <del>                                     </del> |          |           |          |                                      |
|   |                              |                |               |               |                       |                          | П           |              |           |         | П            |          | D.I        | slu     | IV V     | OC V     | als          | roz      | en s           | orag   | ie       | <u> </u>  | $\vdash$ |                                      |
|   |                              |                |               |               |                       |                          | П           |              | Т         |         |              | ſ        | ote        | 9/1     | 9/13     | Time     | . 21         | :40      | Initi          | cis.   | DL       | 2.        |          |                                      |
| *   |                              |                |               |               |                       |                          | П           |              |           |         | П            | 1        |            | #       | -        | 111113   | -            | -        | 77.1311        |  | _        |           |          |                                      |
|   |                              |                |               |               |                       |                          | П           | T            |           |         | П            |          |            |         |          |          |              |          |                | <b>1</b>   |          |           |          |                                      |
|   |                              |                |               |               |                       |                          | П           |              |           |         | П            |          |            |         |          |          |              |          |                |  |          | Г         |          |                                      |
| Turnaround Time ( Business days)  |                              |                |               |               |                       | Data                     |             |              |           |         |              |          |            |         |          |          |              | Com      | ments          | Specia   | l Instru | ctions    |          |                                      |
| Std. 10 Business Days   | Approved By (Accu            |                |               |               |                       | al "A" (Le<br>al "B" (Le |             |              |           |         | ASP (        |          |            |         | ₽ PA     | DEP      | SER          | 20 2     | P., As         | ni.  | Param    | . Enter ( | , c G    | COLLECTIVE                           |
| 5 Day RUSH 3 Day EMERGENCY  | u at Exton                   | Service Ce     | ente <b>r</b> |               |                       | Level 3+4                | )           |              |           |         | ate Fo       |          | C.         |         |          |          |              |          |                | U/L  |          |           | -4 70.   | - Carety NVE                         |
| 2 Day EMERGENCY   | 9/19/                        | ( <del>)</del> |               |               | NJ Reduc<br>Commerci  |                          |             |              | 2         |         | DD Fo<br>her |          | EQU        | 115     | ACT      | دردا     |              |          |                |  |          |           |          |                                      |
| 1 Day EMERGENCY   | 11 4                         |                |               |               |                       | Commercia                |             |              |           | 7       | -            |          |            |         | # LE     | De),     | AND          | WLE      | ASEL           | Cis .  | ادراعا   | E A       | 10 A     | ٠٥٠                                  |
| other Emergency & Rush T/A data available VIA Lablink                     |                              |                |               |               |                       | Commercia<br>NJ Reduce   | ed = R      | esuits       | + QC S    | umma    | arv + F      | artial I | Raw data   |         | 24       | ہے ہ     |              |          | 6165           |  |          |           |          |                                      |
| Reij/quished by Sampter: Date Time: /                                     | Sa                           | mple Custody m | ust be docum  | ented be      | low eac               | time sa                  | mples       | s char       | ige po    | 5565    | gion,        | inclu    | ding c     | ourier  | deliver  | ý.       |              |          |                |  |          |           |          |                                      |
| 11/0 / 5/14/1   | 3/1525                       | 1              | 1             | // Y          |                       |                          | 2<br>2      | uished       | ay:       | 7       |              |          | _          |         |          | Date Tin | ne:<br>1/1/3 | 1615     | Receive<br>2   | gl By:   | 11/      | mar-      |          |                                      |
| Relinquished by Sample:  Dete Time:                                       | 3 /910                       | Received By:   | 1 \$          | <b>"</b>      |                       |                          | Relinq      | uished       | Ву:       | /       |              |          |            |         |          | Date Tin |              | <u> </u> | Receive        | d By:  | -        |           |          |                                      |
| Refinquished by: Date Time:   |                              | Received By:   |               |               |                       | ~                        | Custos      | dy Seal      | #         |         |              |          |            |         | Preserve |          | applical     | ble      | l <del>"</del> |  | On los   |           | Cooler   | Femp.                                |
| La.   |                              | J              |               |               |                       |                          |             |              |           |         |              | ш        | Not intact |         |          |          |              |          |                |  | Ŋ        |           | _1.1     |                                      |
| IA  |                              |                |               |               |                       |                          |             |              |           |         |              |          |            |         |          |          |              |          |                |  |          |           |          | 7.6.                                 |

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## **Accutest Laboratories Sample Receipt Summary**

| Accutest Job Number: JB  | 47863            | _ Client:     |                  | Project:  |              |              |  |
|--|------------------|---------------|------------------|---|--------------|--------------|--|
| Date / Time Received: 9/1  | 9/2013           |               | Delivery Method: | Airbill #'s:  |              |              |  |
| Cooler Temps (Initial/Adjus  | ted): #1: (1.    | 1/1.1); 0     |                  |   |              |              |  |
|  |                  |               |                  |   |              |              |  |
| Custody Seals Present:   |                  | 3. COC Pro    |                  | 1. Sample labels present on bottles:  | <u> </u>     | or N         |  |
| 2. Custody Seals Intact:   |                  | 1. Smpl Dates | s/Time OK 🗸      | Container labeling complete:  | $\checkmark$ |              |  |
| Cooler Temperature   | Y or I           | N_            |                  | 3. Sample container label / COC agree:  | ✓            |              |  |
| Temp criteria achieved:     Cooler temp verification:     Cooler media:     No. Coolers: | IR Gu<br>Ice (Ba |               |                  | Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample: | <b>&gt;</b>  | or N         |  |
| Quality Control Preservation   | Y or             | N N/A         |                  | Sample Integrity - Instructions   | Υ            | or N         | N/A                                    |
| 1. Trip Blank present / cooler:  |                  | <b>✓</b>      |                  | Analysis requested is clear:  | <u>·</u>     |              |  |
| 2. Trip Blank listed on COC:   |                  | <b>✓</b>      |                  | Bottles received for unspecified tests  |              | $\checkmark$ |  |
| 3. Samples preserved properly  | : <b>v</b> [     |               |                  | Sufficient volume recvd for analysis:   | <b>✓</b>     |              |  |
| 4. VOCs headspace free:  |                  |               |                  | 4. Compositing instructions clear:  |              |              | <b>✓</b>                               |
|  |                  |               |                  | 5. Filtering instructions clear:  |              |              | <b>✓</b>                               |
| Comments   |                  |               |                  |   |              |              |  |
| Accutest Laboratories<br>V:732.329.0200  |                  |               |                  | 2235 US Highway 130<br>F: 732.329.3499  |              |              | Dayton, New Jersey<br>www/accutest.com |

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|  | A | $\Box$ | $\Box$ | L  | j | T   | E  | =   | ; | T | • |
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#### CHAIN OF CUSTODY

|                      | _                              | LABORATO   | RIES       |                 |                   | 2235 1         | Route 136     | ) Dayton             | NJ 0881                | )       |         |          |        |             |             | FED-EX     | Tracking # | •        |                     |          |  | Bottle O  | nder Contr | ol #     |              |           |  |
|----------------------|--------------------------------|--|------------|-----------------|-------------------|----------------|---------------|----------------------|------------------------|---------|---------|----------|--------|-------------|-------------|------------|------------|----------|---------------------|----------|--|-----------|------------|----------|--------------|-----------|--|
|                      | * .                            |  |            |                 |                   | TEL. 732-32    | 9-0200        |                      | 2-329-349              |         | D       |          |        |             |             | Accutes    | t Quote #  |          |                     |          |  | Accides   | Job#       | JE       | 34786        | 33        |  |
|                      | Client / Rep                   | orting Information                               | 1          |                 |                   | Project        | Informa       | tion                 |                        |         |         |          |        |             |             |            | Req        | uested   | Analys              | is ( se  | e TEST                                 | CODE      | sheet      | )        |              |           | Matrix Codes                                     |
| Compi                | iny Name:                      |  | 1          | Project Name:   |                   |                |               |                      |                        |         |         |          |        |             |             |            |            | İ        | 1                   |          | 1                                      |           |            |          |              | - 1       |  |
|                      | cutest Laborate                | ories  |            |                 |                   | Sunoco - Mai   | cus Ho        | ok Facil             | ity, PA                |         |         |          |        |             |             |            | ]          |          |                     |          |  | 1         |            |          |              |           | DW - Drinking Wate<br>GW - Ground Wate           |
|                      | Address                        |  | 8          | Street          |                   |                | ļ             |                      |                        |         |         |          |        |             |             | 7          |            |          |                     |          |  |           |            |          |              | - 1       | WW - Water<br>SW - Surface Wate                  |
| 1                    | 35 Route 130                   |  | Zip (      | 0.4             |                   | Sløte          | Billing I     |                      | on ( if diffe          | rent fr | om Re   | eport    | (0)    |             |             | 4          |            |          |                     |          |  |           |            |          |              | l         | SO - Soil  |
| City                 | State<br>ofton NJ              | 08810  | 240        | City            |                   | State          | Compan        | y warne              |                        |         |         |          |        |             |             | 1          |            |          |                     |          |  | 1         |            |          |              |           | SL- Sludge<br>SED-Sediment                       |
|                      | Contact                        | E-mail   |            | Project #       |                   |                | Street A      | ddress               |                        |         |         |          |        |             |             | 1          |            |          |                     |          | 1                                      |           |            |          |              |           | Ot - Oil<br>LtQ - Other Liquid                   |
| kris                 | tinb kristir                   | nb@accutest.com                                  |            |                 |                   |                |               |                      |                        |         |         |          |        |             |             | 1          |            |          |                     |          | 1                                      | 1         |            |          |              | ı         | AIR - Air<br>SOL - Other Solid                   |
| Phone                |                                |  | Fax# (     | Client Purchase | Order#            |                | City          |                      |                        | S       | tate    |          |        | Zip         |             | 1          |            | l        |                     |          |  | 1         |            |          |              | - 1       | WP - Wipe  |
|                      | -329-0200                      |  |            |                 |                   |                |               |                      |                        |         |         |          |        |             |             | 1          |            |          |                     |          |  |           |            |          |              | - 1       | FB-Field Blank<br>EB-Equipment Blank             |
| Sample               | er(s) Name(s)<br>⊋             |  | Phone F    | Project Manage  | F                 |                | Attention     | E                    |                        |         |         |          |        |             |             | m          |            |          |                     |          | l                                      |           |            |          |              |           | R8- Rinse Blank<br>TB-Trip Blank                 |
|                      | ·                              |  |            |                 | F                 | Collection     |               | r                    | 1                      |         | Numb    | er of pr | eserve | d Bottle    | \$          |            |            |          |                     |          | j                                      |           |            |          |              | - 1       | · Lo · · · · p · · · · · · · ·                   |
| l                    |                                |  | l          |                 |                   | 1              |               |                      |                        | П.      | .T.     | 4        | . j    | _           | 뿚           | V8011ED    |            |          |                     |          |  |           | 1 1        |          |              | Γ         |  |
| Accutest<br>Sample 8 | Field ID / F                   | oint of Collection                               |            | MEOH/DI Visi #  | Date              | Time           | Sampled<br>by | Matrix               | # of bottles           | 포       | HNONH   | HZSC     | Š Š    | MEOH        | ENCOR       | 8          |            |          |                     |          | 1                                      |           |            |          |              | i         | LAB USE ONLY                                     |
| 1                    | MW-482(0-2                     | .0)  |            |                 | 9/19/13           | 9:00:00 AM     | JDR           | so                   |                        | T       | 1       | П        | 1      | П           |             | Х          |            |          |                     |          |  |           |            |          |              | T         | <del>/////////////////////////////////////</del> |
| 2                    | MW-482(2.0-                    | -4.0)  |            |                 | 9/19/13           | 10:20:00 AM    | JDR           | so                   |                        | Т       |         | П        | 1      | П           |             | х          |            |          |                     |          |  |           |            |          |              |           |  |
| 3                    | MW-482(4.0-                    | -5.5)  |            |                 | 9/19/13           | 10:35:00 AM    | JDR           | so                   |                        | 1       | T       | П        | 1      | П           | T           | Х          |            |          |                     |          |  |           |            |          |              | T         |  |
|                      |                                |  |            |                 |                   |                |               |                      |                        | $\top$  |         | П        | T      | П           |             |            |            |          |                     |          |  |           |            |          |              | T         |  |
|                      |                                |  |            |                 |                   |                |               |                      |                        | T       | П       | $\Box$   | T      | Ħ           |             |            |            |          |                     |          |  |           |            |          |              | $\exists$ |  |
|                      |                                |  |            |                 |                   |                |               |                      |                        | 十       | T       | H        | 1      | П           |             |            |            |          |                     |          |  |           |            |          |              |           |  |
|                      |                                |  |            |                 |                   |                |               |                      |                        | 十       | T       | $\top$   | 1      | T           |             |            |            |          |                     |          |  |           |            |          |              | $\top$    |  |
|                      |                                | * *****  |            |                 | İ                 |                |               |                      |                        | 7       | $\top$  |          | T      | П           |             |            |            |          |                     |          |  |           |            |          |              | 丁         |  |
|                      |                                |  |            |                 |                   |                |               |                      |                        | $\top$  | П       |          | T      | П           |             |            |            |          |                     |          |  |           |            |          |              | $\top$    |  |
|                      |                                |  |            |                 |                   |                |               |                      |                        |         | П       |          | T      | П           | П           |            |            |          |                     |          |  |           |            |          |              | 1         | IF.  |
|                      |                                |  |            |                 |                   |                |               |                      |                        | $\top$  | П       | $\top$   | T      | П           | П           |            |            |          |                     |          |  |           |            |          |              | $\top$    |  |
|                      |                                |  |            |                 |                   |                |               | -                    |                        | $\top$  | $\Box$  | +        | T      | H           |             |            |            |          |                     |          |  |           |            |          |              | 十         |  |
|                      | Tumaround                      | Time ( Business days)                            |            |                 | 1                 | <u> </u>       | l             |                      | Data I                 | elive   | rable   | inform   | ation  | 1           |             |            | <u> </u>   |          |                     |          | Comr                                   | nents / S | Special I  | nstructi | ons          |           |  |
|                      |                                |  | Ар         | proved By (Accu | test PM): / Oate: |                |               | Commerci             | ai "A" (Le             | vel 1)  |         |          | ן אי   | /ASP        | Catego      | ry A       |            |          |                     |          |  |           |            |          |              |           |  |
|                      | X Std. 10 Busines              | ss Days  | -          |                 |                   |                |               |                      | al "B" ( Le            |         |         |          | _      |             | Catego      | ry B       | - 1        |          |                     |          |  |           |            |          |              |           |  |
|                      | ☐ 5 Day RUSH<br>☐ 3 Day EMERGE | -NOV   | _          |                 |                   | l              |               |                      | Level 3+4              | )       |         | F        | -      | ate Fo      | rms<br>rmat |            |            |          |                     |          |  |           |            |          |              |           |  |
|                      | 2 Day EMERGE                   |  | -          |                 |                   | 1              |               | U Reduce<br>commerci |                        |         |         | F        |        | her_        | 43H4L       |            | -          |          |                     |          |  |           |            |          |              |           |  |
|                      | 1 Day EMERGE                   |  | _          |                 |                   |                |               |                      | Commercia              | 1 "A" = | Resu    | its On   |        |             |             |            |            |          |                     |          |  |           |            |          |              |           |  |
| _ [                  | other                          |  | . –        |                 |                   |                |               |                      | Commercia<br>NJ Reduce |         |         |          |        |             |             | Danu al-4  | . 1        |          |                     |          |  |           |            |          |              |           |  |
| Emê                  | gency & Rush T/A               | enta available VIA Labin                         |            |                 | Sample Custoe     | ly must be doc | umente        |                      |                        |         |         |          |        |             |             |            |            |          |                     |          | 1                                      |           |            |          |              |           |  |
| Relino               | trished by Sampler             | P  | Date Tin   | 131700          | Received By:      | -              | D A           |                      |                        | telingu |         |          |        | F           | 4           |            |            |          | Date Time<br>9/21/1 | 10.      | 00                                     | Received  | Ву         | 2        | 5            |           |  |
| Relinq               | uished by Sampler:             |  | Date Time: |                 | Received By:      |                |               | $\sim$               | ļ.                     | elinqu  | ished I | By:      |        | <del></del> | -           |            |            |          | Date Time           |          |  | Received  | By:        | -        | <del>/</del> |           |  |
|                      | uished by:                     | <del>                                     </del> | Date Time: |                 | 3<br>Received By: |                |               |                      |                        | ustody  | Seal #  | · ~      | つき     | )           |             | intact     |            | reserved | where ap            | olicable | ناــــــــــــــــــــــــــــــــــــ | *         |            | On Ice   | 1.95         | poler Te  | mp.  |
| 5                    |                                |  | 1          |                 | 5                 |                |               |                      |                        |         |         | _        | _ ~    | -           | ر ں         | Not intact |            |          | 0                   |          |  |           |            | 2        | 1.7          |           |  |

JB47863: Chain of Custody Page 1 of 2 Accutest Labs of New England, Inc.

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## **Accutest Laboratories Sample Receipt Summary**

| Accutest Job Number: JB47863  | Client: AC                   | CNJ                            | Immediate Client Serv   | vices Action Required:   | No          |
|---|------------------------------|--------------------------------|---|--|-------------|
| Date / Time Received: 9/21/201  | 3                            | Delivery Method:               | Client Service Act  | ion Required at Login:   | No          |
| Project: SUB  |                              | No. Coolers:                   | 1 Airbill #'s:  |  |             |
| Cooler Security  1. Custody Seals Present:  2. Custody Seals Intact:  ✓               | 3. COC Prese 4. Smpl Dates/T |                                | Sample Integrity - Documentation  1. Sample labels present on bottles:  2. Container labeling complete:   | <u>Y</u> or <u>N</u> ✓ □   |             |
| Temp criteria achieved:     Cooler temp verification:     Cooler media:               | Y or N N/A                   |                                | 3. Sample container label / COC agree:  Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:   | <ul> <li>✓ □</li> <li>Y or N</li> <li>✓ □</li> <li>Intact</li> </ul> |             |
| <ul><li>2. Trip Blank listed on COC:</li><li>3. Samples preserved properly:</li></ul> |                              |                                | Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear: | Y or N   | N/A         |
| Comments  |                              |                                | 1   |  | <u>E</u>    |
|   |                              |                                |   |  |             |
|   |                              |                                |   |  |             |
| Accutest Laboratories<br>V:508.481.6200   |                              | 495 Technology Cer<br>F: 508.4 |   |  | borough, MA |

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